



EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) Co., LTD.

RADIO TEST - REPORT

FCC Compliance Test Report for

Product name: POWERMAN CLADIATORS - RC FIGHTING ROBOTS

Model name: ROBDUO

FCC ID: UU8-ROBDUO

Test Report Number: EFGX24050319-IE-03-E01

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1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter “Description of test item” and are not transferable to any other test items.

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Operator:

2024-07-09

Bruce Zheng / Project Engineer



Date

Eurofins-Lab.

Name / Title

Signature

Technical responsibility for area of testing:

2024-07-09

Albert Xu / Lab Manager



Date

Eurofins-Lab.

Name / Title

Signature

1.2 Testing laboratory

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.

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The Laboratory has passed the Accreditation by the American Association for Laboratory Accreditation (A2LA). The Accreditation number is 5376.01

The Laboratory has been listed by industry Canada to perform electromagnetic emission measurements, The CAB identifier is CN0088

1.3 Details of applicant

Name : Lexibook America
Address : C/O Pramex International 1251 Avenue of the Americas,
3rd Fl., New York 10020 United States
Telephone : ./.
Fax : ./.

1.4 Details of manufacturer

Name : Lexibook America
Address : C/O Pramex International 1251 Avenue of the Americas, 3rd
Fl., New York 10020 United States
Telephone : ./.
Fax : ./.

1.5 Application details

Date of receipt of application : 2024-05-22
 Date of receipt of test item : 2024-05-22
 Date of test : 2024-05-22 to 2024-07-09
 Date of issue : 2024-07-09

1.6 Test item

Product type : POWERMAN CLADIATORS - RC FIGHTING ROBOTS
 Model name : ROBDUO
 Brand : ./.
 Sample ID : 240522-03-005
 Serial number : ./.
 Ratings : 3V Battery
 Test voltage : DC 3V
 FCC ID : UU8- ROBDUO
 PMN : POWERMAN CLADIATORS - RC FIGHTING ROBOTS
 Additional information : ./.

RadioTechnical data

Frequency range : 2405MHz – 2475MHz
 Radio Tech. : 2.4G SRD
 Frequency channel : 71
 Modulation : GFSK
 Antenna type : Internal antenna

1.7 Test standards

Test Standards	
FCC Part 15 Subpart C December 16, 2020	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

Test Method

- ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.
- ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices.

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

or

The deviations as specified were ascertained in the course of the tests performed.

2.2 Test environment

RF Conducted

Environment Parameter	Temperature	Relative Humidity
101.2Kpa	24.6	62.6%

Radiated

Environment Parameter	Temperature	Relative Humidity
101.2Kpa	23.7	51.7%

2.3 Measurement uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty in conducted measurements	1.96dB
Uncertainty for Conducted RF test	RF Power Conducted: 1.16dB Frequency test involved: 1.05x10 ⁻⁷ or 1%
Uncertainty for Radiated Spurious Emission 25MHz-3000MHz	Horizontal: 4.46dB; Vertical: 4.54dB;
Uncertainty for Radiated Spurious Emission 3000MHz-18000MHz	Horizontal: 4.42dB; Vertical: 4.41dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 4.63dB; Vertical: 4.62dB;

2.4 Test mode

Channel List

Channel	Fre- quency (MHz)	Channel	Fre- quency (MHz)	Channel	Fre- quency (MHz)	Channel	Fre- quency (MHz)
1	2405	21	2425	41	2445	61	2465
2	2406	22	2426	42	2446	62	2466
3	2407	23	2427	43	2447	63	2467
4	2408	24	2428	44	2448	64	2468
5	2409	25	2429	45	2449	65	2469
6	2410	26	2430	46	2450	66	2470
7	2411	27	2431	47	2451	67	2471
8	2412	28	2432	48	2452	68	2472
9	2413	29	2433	49	2453	69	2473
10	2414	30	2434	50	2454	70	2474
11	2415	31	2435	51	2455	71	2475
12	2416	32	2436	52	2456	72	
13	2417	33	2437	53	2457	73	
14	2418	34	2438	54	2458	74	
15	2419	35	2439	55	2459	75	
16	2420	36	2440	56	2460	76	
17	2421	37	2441	57	2461	77	
18	2422	38	2442	58	2462	78	
19	2423	39	2443	59	2463	79	
20	2424	40	2444	60	2464	80	

The EUT was set at continuously transmitting mode (2405MHz,2440MHz,2475MHz) during the test.

2.5 Test equipment utilized

EQUIPMENT ID	EQUIPMENT NAME	MODEL NO.	CAL. DUE DATE
23-2-13-05	EMI Test Receiver	ESR3	2025-03-25
23-2-13-06	LISN	NNLK 8127 RC	2025-03-25
23-2-10-16	Attenuator	VTSD 9561-F	2025-03-25
23-2-13-12	Signal Analyzer	N9010B-544	2025-03-25
23-2-13-13	BT/WLAN Tester	CMW270	2025-03-25
23-2-13-14	Signal Generator	N5183B-520	2025-03-25
23-2-13-15	Vector Signal Generator	N5182B-506	2025-03-25
23-2-10-43	Switch and Control Unit	ERIT-E-JS0806-2	2025-03-25
23-2-10-44	DC power supply	E3642A	2025-03-25
23-2-10-45	Temperature test chamber	SG-80-CC-2	2025-03-25
23-2-13-01	EMI Test Receiver	ESR7	2025-03-25
23-2-13-02	Signal Analyzer	N9020B-544	2025-03-25
23-2-12-01	Active Loop Antenna	FMZB 1519B	2025-05-05
23-2-12-02	TRILOG Broadband Antenna	VULB9168	2025-05-05
23-2-12-03	Horn Antenna	3117	2025-05-05
23-2-12-04	Horn Antenna	BBHA 9170	2025-05-05
23-2-10-01	Preamplifier	BBV9745	2025-03-25
23-2-10-02	Preamplifier	TAP01018048	2025-03-25
23-2-10-03	Preamplifier	TAP18040048	2025-03-25
23-2-10-14	Switch and Control Unit	ERIT-E-JS0806-SF1	N/A

2.6 Auxiliary Equipment Used during Test:

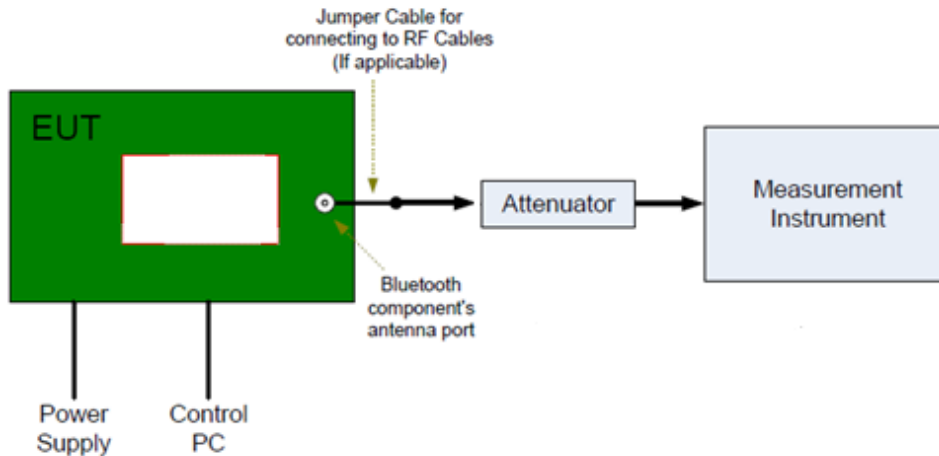
DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
Laptop	LENOVO	TP00096A	PF-1QH0LV

2.7 Test software information:

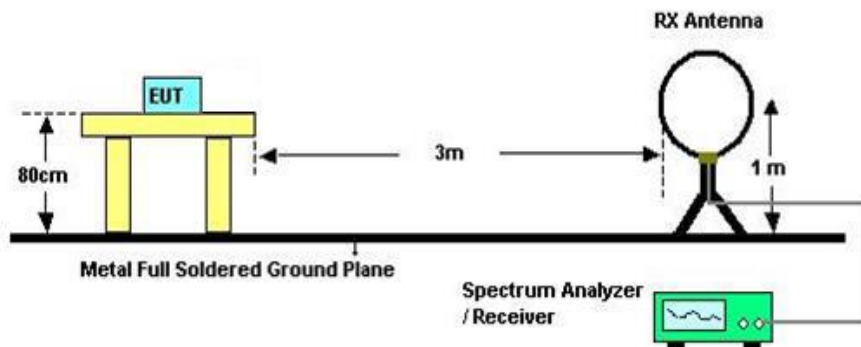
Test Software Version	N.A		
Modulation	Setting TX Power	TX Pattern	Packet Type
GFSK	N.A	TX Packet	N.A

2.8 Test setup

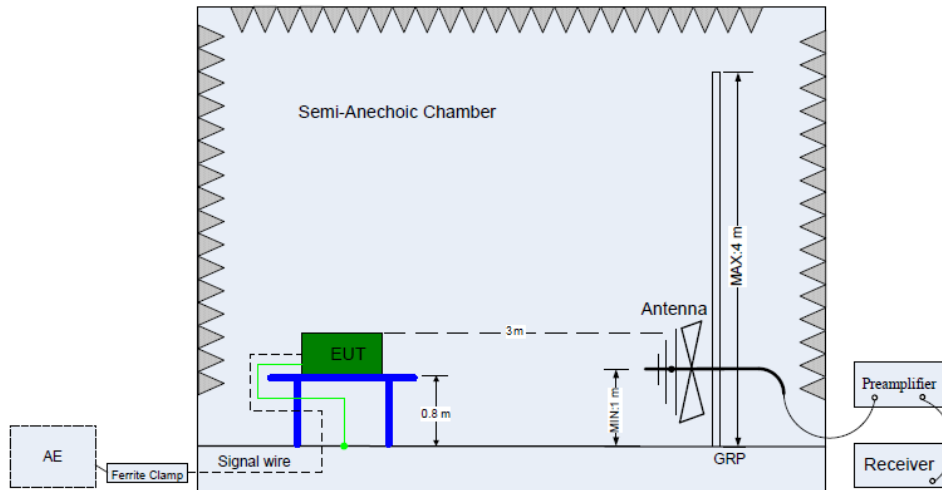
Setup diagram for conducted tests



Setup diagram for radiated tests below 30MHz

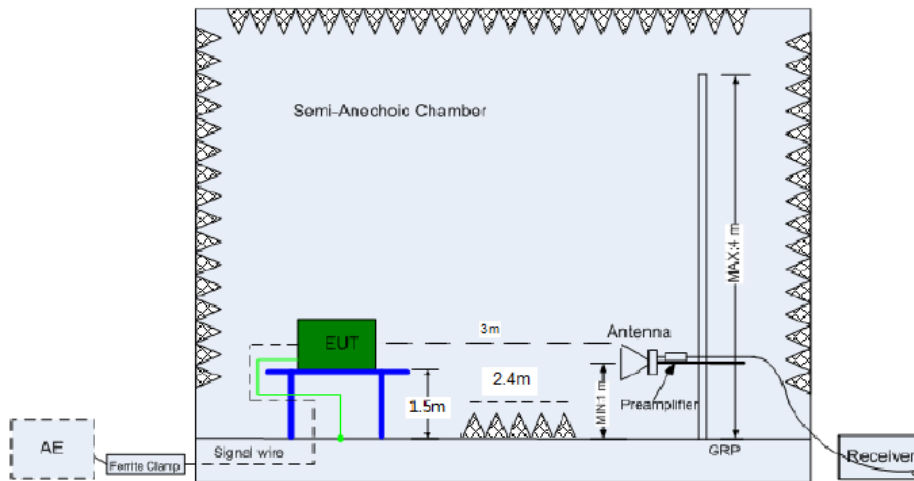


Setup diagram for radiated tests below 1GHz



(Below 1 GHz)

Setup diagram for radiated tests above 1GHz



(Above 1 GHz)

2.9 Test results

 1st test

 test after modification

 production test

Technical Requirements				
FCC Part 15 Subpart C				
Test Condition		Test Result	Verdict	Test Site
§15.215(c)(1)	20dB bandwidth	See page 12	Pass	Site 1
§15.249(a)&(d)&§15.209 &§15.205	Radiated emission	See page 16	Pass	Site 1
§15.203	Antenna requirement	See note 1	Pass	--

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses a internal antenna. According to §15.203, it is considered sufficiently to comply with the provisions of this section.

3 Technical requirement and result

3.1 20 dB bandwidth

Test Method:

The test method was referred to the subclause 6.9.2 of ANSI C63.10-2013.

The occupied bandwidth is measured as the width of the spectral envelope of the modulated signal, at an amplitude level reduced from a reference value by a specified ratio (or in decibels, a specified number of dB down from the reference value). Typical ratios, expressed in dB, are -6 dB, -20 dB, and -26 dB, corresponding to 6 dB BW, 20 dB BW, and 26 dB BW, respectively. In this subclause, the ratio is designated by “-xx dB.” The reference value is either the level of the unmodulated carrier or the highest level of the spectral envelope of the modulated signal, as stated by the applicable requirement. Some requirements might specify a specific maximum or minimum value for the “-xx dB” bandwidth; other requirements might specify that the “-xx dB” bandwidth be entirely contained within the authorized or designated frequency band.

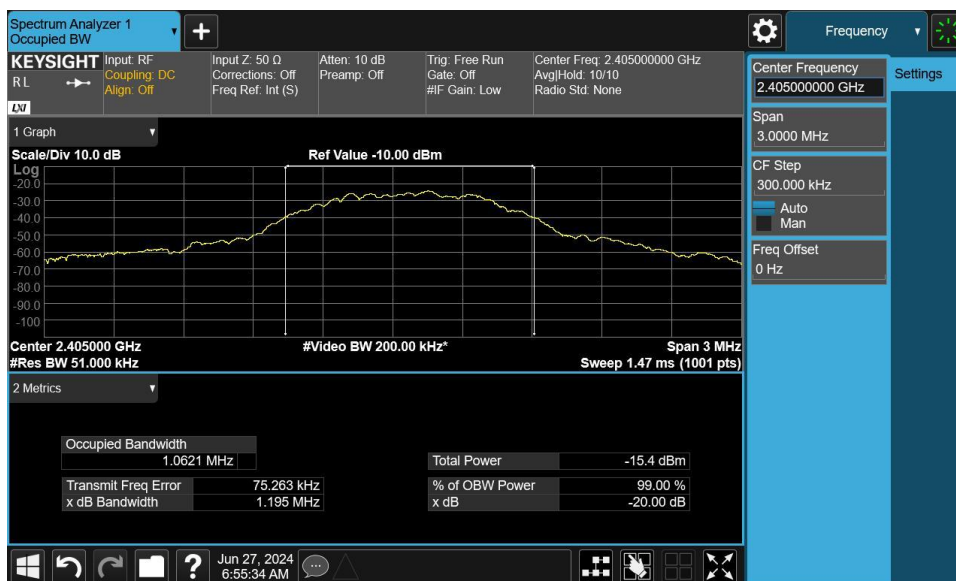
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - xx]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
- j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “ixx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “ixx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
- k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Limit:

None; for reporting purposes only.

Test Result:

Channel	20db EBW[MHz]	Verdict
2405	1.195	PASS
2440	1.211	PASS
2475	1.024	PASS





3.2 Radiated emission

Test Method:

The test method was referred to the subclause 11.11/11.12 of ANSI C63.10-2013.

- 1: The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
- 3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5: Use the following spectrum analyzer settings According to C63.10:
For Above 1GHz
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 1MHz, VBW \geq RBW for peak measurement and VBW = 10Hz for average measurement, Sweep = auto, Detector function = peak, Trace = max hold.
For Below 1GHz
Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 KHz, VBW \geq RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.
For Below 30MHz
Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 200 Hz, VBW \geq RBW from 9KHz to 0.15MHz, RBW 9KHz VBW \geq RBW from 0.15MHz to 30MHz for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Note:

- 1: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.
- 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (20log(1/duty cycle)).
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 5: When duty cycle <98%, The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is VBW \geq 1 / T, the T is transmission duration (T).

Limit:

FCC §15.209

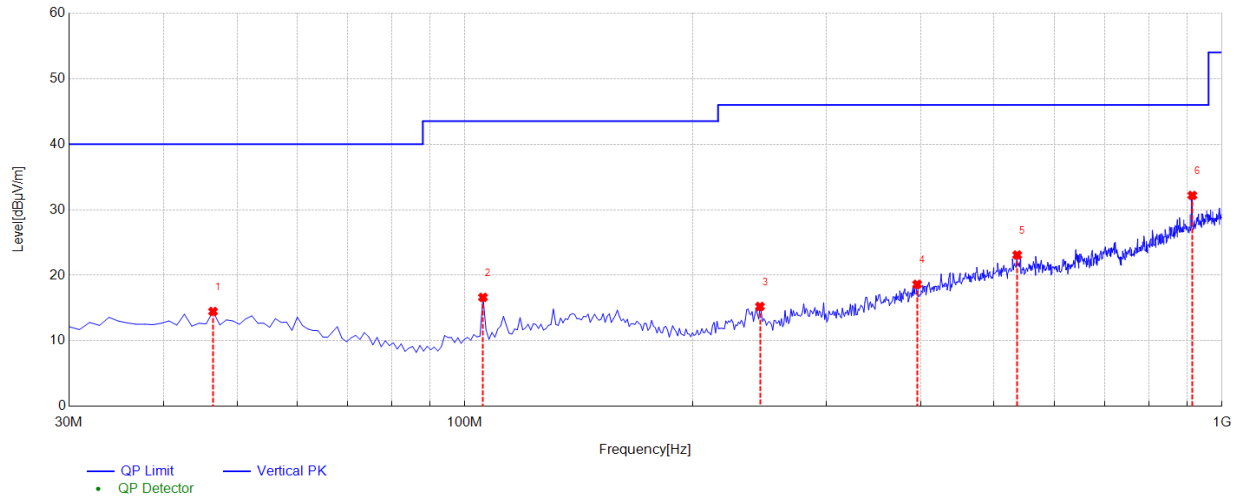
Frequency Range (MHz)	Field Strength Limit ($\mu\text{V/m}$) at 3 m	Field Strength Limit (dB $\mu\text{V/m}$) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

§15.205 Restricted bands of operation

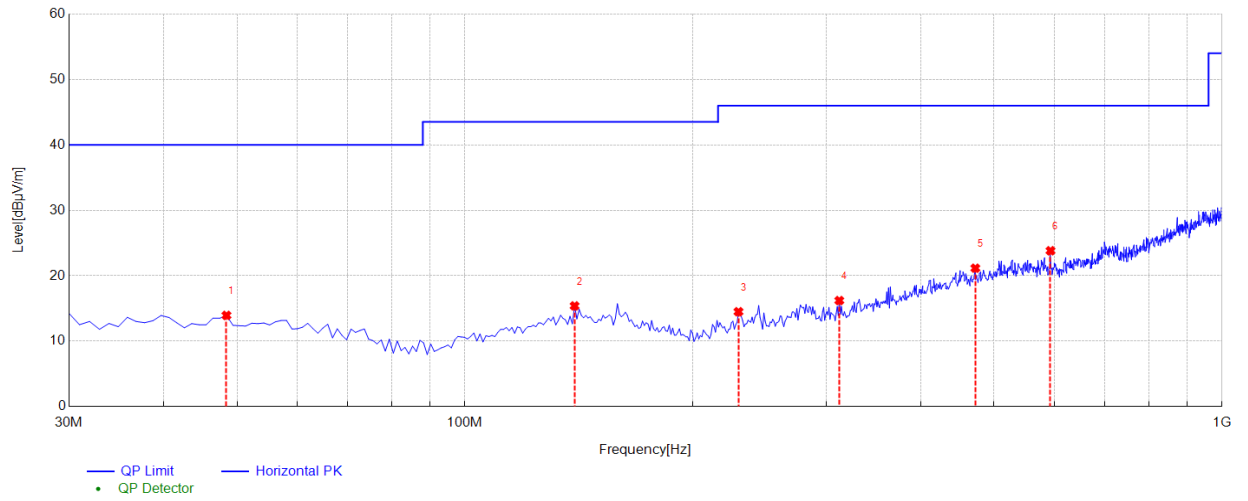
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	
13.36-13.41			

FCC §15.249(a)

Fundamental frequency	Field strength of fundamental (mV/m)	Field strength of fundamental (dB μ V/m)	Field strength of harmonics (μ V/m)	Field strength of harmonics (dB μ V/m)
902-928 MHz	50	94	500	54
2400-2483.5 MHz	50	94	500	54
5725-5875 MHz	50	94	500	54
24.0-24.25 GHz	250	128	2500	68

Test Result:


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	46.4900	14.49	-15.81	40.00	25.51	100	127	Vertical	PASS
2	105.660	16.64	-18.94	43.50	26.86	100	10	Vertical	PASS
3	245.340	15.26	-17.20	46.00	30.74	100	162	Vertical	PASS
4	395.690	18.63	-13.03	46.00	27.37	100	334	Vertical	PASS
5	536.340	23.11	-10.06	46.00	22.89	100	246	Vertical	PASS
6	913.670	32.19	-2.39	46.00	13.81	100	240	Vertical	PASS



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	48.4300	13.95	-15.90	40.00	26.05	100	12	Horizontal	PASS
2	139.610	15.40	-16.46	43.50	28.10	100	331	Horizontal	PASS
3	229.820	14.51	-17.73	46.00	31.49	100	239	Horizontal	PASS
4	312.270	16.22	-15.76	46.00	29.78	100	360	Horizontal	PASS
5	472.320	21.16	-11.32	46.00	24.84	100	93	Horizontal	PASS
6	593.570	23.83	-8.98	46.00	22.17	100	323	Horizontal	PASS

Mode:	2405
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Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dB μ V/m]	PK Limit [dB μ V/m]	PK Margin [dB]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	3207	-18.42	57.85	74.00	16.15	44.43	54.00	9.57	150	129	Horizontal	PASS
2	3364.74	-18.68	42.78	74.00	31.22	29.30	54.00	24.70	105.1	128.6	Horizontal	PASS
3	4008.36	-16.53	43.05	74.00	30.95	30.02	54.00	23.98	105.1	345.1	Horizontal	PASS
4	4810.53	-14.91	59.90	74.00	14.10	53.15	54.00	0.85	117.4	96.5	Horizontal	PASS
5	7215	-12.19	44.05	74.00	29.95	34.09	54.00	19.91	150	119	Horizontal	PASS
6	13824	-2.32	46.51	74.00	27.49	37.36	54.00	16.64	150	119	Horizontal	PASS

Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dB μ V/m]	PK Limit [dB μ V/m]	PK Margin [dB]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	3207	-18.42	49.23	74.00	24.77	40.86	54.00	13.14	150	113	Vertical	PASS
2	4008	-16.53	47.17	74.00	26.83	30.53	54.00	23.47	150	310	Vertical	PASS
3	4810.56	-14.91	52.28	74.00	21.72	43.86	54.00	10.14	105.1	141	Vertical	PASS
4	8004	-11.21	42.98	74.00	31.02	34.01	54.00	19.99	150	242	Vertical	PASS
5	10788	-6.84	44.08	74.00	29.92	35.48	54.00	18.52	150	58	Vertical	PASS
6	13590	-2.84	45.68	74.00	28.32	36.75	54.00	17.25	150	48	Vertical	PASS

Mode:	2440
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Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dB μ V/m]	PK Limit [dB μ V/m]	PK Margin [dB]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1628	2.50	49.84	74.00	24.16	46.48	54.00	7.52	150	202	Horizontal	PASS
2	3253.38	-18.74	60.94	74.00	13.06	52.76	54.00	1.24	100	238.5	Horizontal	PASS
3	4066.95	-16.84	53.41	74.00	20.59	48.06	54.00	5.94	114.3	360	Horizontal	PASS
4	4879.65	-14.67	61.44	74.00	12.56	48.08	54.00	5.92	105.1	298.6	Horizontal	PASS
5	7320	-11.84	44.26	74.00	29.74	33.62	54.00	20.38	150	311	Horizontal	PASS
6	11478	-5.81	44.96	74.00	29.04	35.61	54.00	18.39	150	240	Horizontal	PASS

Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dB μ V/m]	PK Limit [dB μ V/m]	PK Margin [dB]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1626	2.48	41.97	74.00	32.03	34.06	54.00	19.94	150	201	Vertical	PASS
2	3255	-18.74	47.47	74.00	26.53	40.09	54.00	13.91	150	85	Vertical	PASS
3	4068	-16.84	46.73	74.00	27.27	37.65	54.00	16.35	150	104	Vertical	PASS
4	4880.49	-14.67	59.50	74.00	14.50	53.36	54.00	0.64	190.4	45.3	Vertical	PASS
5	7116	-11.70	43.51	74.00	30.49	35.06	54.00	18.94	150	36	Vertical	PASS
6	7992	-11.13	43.22	74.00	30.78	33.19	54.00	20.81	150	104	Vertical	PASS

Mode:	2475
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Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dB μ V/m]	PK Limit [dB μ V/m]	PK Margin [dB]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1650	2.71	48.62	74.00	25.38	38.59	54.00	15.41	150	34	Horizontal	PASS
2	3300	-18.43	57.07	74.00	16.93	52.82	54.00	1.18	150	351	Horizontal	PASS
3	4125.18	-16.56	58.37	74.00	15.63	53.87	54.00	0.13	105.4	226.1	Horizontal	PASS
4	4949.7	-15.26	61.93	74.00	12.07	48.02	54.00	5.98	108.2	316.3	Horizontal	PASS
5	7425	-11.70	43.00	74.00	31.00	33.69	54.00	20.31	150	5	Horizontal	PASS
6	11757	-5.34	46.56	74.00	27.44	36.13	54.00	17.87	150	126	Horizontal	PASS

Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dB μ V/m]	PK Limit [dB μ V/m]	PK Margin [dB]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1650	2.71	40.77	74.00	33.23	35.09	54.00	18.91	150	272	Vertical	PASS
2	3303	-18.45	46.15	74.00	27.85	40.60	54.00	13.40	150	129	Vertical	PASS
3	4125	-16.56	45.18	74.00	28.82	32.04	54.00	21.96	150	146	Vertical	PASS
4	4949.91	-15.26	55.82	74.00	18.18	50.08	54.00	3.92	155.1	82.4	Vertical	PASS
5	9795	-8.06	42.99	74.00	31.01	34.75	54.00	19.25	150	315	Vertical	PASS
6	14364	-1.25	45.98	74.00	28.02	38.65	54.00	15.35	150	14	Vertical	PASS

Band-edge (Radiated)

Mode:	2405
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Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dB μ V/m]	PK Limit [dB μ V/m]	PK Margin [dB]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2310.0000	9.07	47.24	74.00	26.76	44.48	54.00	9.52	150	60	Horizontal	PASS
2	2345.28	9.30	50.08	74.00	23.92	48.56	54.00	5.44	150	299	Horizontal	PASS
3	2356.72	9.33	53.84	74.00	20.16	52.91	54.00	1.09	150	304	Horizontal	PASS
4	2368.8	9.45	51.64	74.00	22.36	50.71	54.00	3.29	150	302	Horizontal	PASS
5	2380.88	9.92	51.83	74.00	22.17	48.71	54.00	5.29	150	308	Horizontal	PASS
6	2400.0000	10.39	49.82	74.00	24.18	45.16	54.00	8.84	150	251	Horizontal	PASS

Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dB μ V/m]	PK Limit [dB μ V/m]	PK Margin [dB]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2310	9.07	46.34	74.00	27.66	44.18	54.00	9.82	150	147	Vertical	PASS
2	2317.84	9.08	48.37	74.00	25.63	45.81	54.00	8.19	150	99	Vertical	PASS
3	2333.36	9.23	47.22	74.00	26.78	44.11	54.00	9.89	150	94	Vertical	PASS
4	2357.76	9.37	49.27	74.00	24.73	46.27	54.00	7.73	150	174	Vertical	PASS
5	2372.88	9.67	47.92	74.00	26.08	45.01	54.00	8.99	150	261	Vertical	PASS
6	2400	10.39	48.65	74.00	25.35	45.04	54.00	8.96	150	282	Vertical	PASS

Mode:	2475
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Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dB μ V/m]	PK Limit [dB μ V/m]	PK Margin [dB]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2483.5002	10.62	45.44	74.00	28.56	41.48	54.00	12.52	100	317.4	Horizontal	PASS
2	2483.7967	10.58	52.09	74.00	21.91	42.55	54.00	11.45	117.8	310.3	Horizontal	PASS
3	2485.0348	61.46	10.51	74.00	12.54	42.75	54.00	11.25	165.4	316.6	Horizontal	PASS
4	2486.5033	10.36	42.77	74.00	31.23	41.46	54.00	12.54	100.2	314	Horizontal	PASS
5	2487.658	10.25	43.37	74.00	30.63	41.68	54.00	12.32	108.7	308.2	Horizontal	PASS
6	2500	10.10	48.01	74.00	25.99	45.82	54.00	8.18	150	188	Horizontal	PASS

Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dB μ V/m]	PK Limit [dB μ V/m]	PK Margin [dB]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2483.5	10.62	49.90	74.00	24.10	44.79	54.00	9.21	150	124	Vertical	PASS
2	2483.7475	10.59	51.30	74.00	22.70	47.52	54.00	6.48	150	334	Vertical	PASS
3	2484.5065	10.52	51.32	74.00	22.68	45.67	54.00	8.33	150	120	Vertical	PASS
4	2485.2325	10.48	51.79	74.00	22.21	48.83	54.00	5.17	150	91	Vertical	PASS
5	2485.7605	10.41	50.27	74.00	23.73	45.84	54.00	8.16	150	212	Vertical	PASS
6	2500	10.10	47.29	74.00	26.71	44.00	54.00	10.00	150	221	Vertical	PASS

Level = Read level + Factor

Factor = Antenna Factor + Cable loss – Preamp Factor

Field strength of fundamental

PK Data List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2405	85.60	6.63	114.00	28.40	150	79	Horizontal
2	2405	73.55	6.63	114.00	40.45	150	259	Vertical
3	2440	86.22	6.93	114.00	27.78	150	233	Horizontal
4	2440	71.66	6.88	114.00	42.34	150	305	Vertical
5	2475	85.52	7.11	114.00	28.48	150	237	Horizontal
6	2475	74.80	7.11	114.00	39.20	150	292	Vertical

-END OF REPORT-